

Date: Thu, 30 Sep 93 14:43:42 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1158
To: Info-Hams

Info-Hams Digest Thu, 30 Sep 93 Volume 93 : Issue 1158

Today's Topics:

Alinco 580, UHF Tx
Antenna Covenants AGAIN (but now with
Best way to learn code?
Cavity amplifier design
Codeless Tech Debate
Crystal Oscillator
EETimes Magazine Address
first sos in history
Need good/cheap place to buy ferrite chokes
New Products Announcement: BFH-1 & BFH-2
Power Supplies
Special Event Station
Stop hunter Harrassment in Michigan
TS50/MOBILE QUESTION

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 30 Sep 93 16:44:39 GMT
From: ogicse!uwm.edu!math.ohio-state.edu!sdd.hp.com!hpscit.sc.hp.com!
johnf@network.ucsd.edu
Subject: Alinco 580, UHF Tx
To: info-hams@ucsd.edu

David Hough (dave@llondel.demon.co.uk) wrote:
: In article <38206@suned1.Nswses.Navy.MIL> kss@spsc2ed0.nswses.navy.mil writes:
: >

: >I am looking for information to Mod a 580 to transmit in the 435-438 MHz
: >for Sat communications. Any help would be appreciated. Why didn't Alinco
: >or many other HTs have this as the norm? %-]
: >
: Erk? My 580 does 430-440 TX as standard.....

You must have the DJ580E, based on your callsign/location. E as in europe.

The DJ580T, the USA version can be modded(sp?) to allow transmit out of the standard 440-450 MHZ range. However this also opens it up to transmit in some no-no areas, like outside of the HAM bands.

e-mail me if you want the goods. I don't want to start a flame war about whether someone should transmit in the 430-440 band in the US outside of the repeater/simplex band allocation.

--

```
*****
*   John P. Flowers           _\\/_-----_*
*   johnf@scd.hp.com         /\ We can tell how   *
*   HP Santa Clara Division      far gone you are!  *
*   Laser R&D                  *
*   My aunt gave me a walkie-talkie for my birthday. She says if *
*   I'm good, she'll give me the other one next year    73 de N6NQW *
*****
```

Date: 29 Sep 93 17:03:08 CDT
From: timbuk.cray.com!hemlock.cray.com!cherry10!dadams@uunet.uu.net
Subject: Antenna Covenants AGAIN (but now with
To: info-hams@ucsd.edu

In article 10581@ke4zv.atl.ga.us, gary@ke4zv.atl.ga.us (Gary Coffman) writes:

|

|The FCC has already proposed uses for the VHF TV spectrum after 2004
|when commercial broadcast will shut down it's VHF operations and go
|strictly to UHF HDTV.

Let's hear it. What have they proposed?

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Kilo Golf Zero India Oscar -(KG0IO)-

Date: 30 Sep 93 16:24:38 GMT
From: ogicse!uwm.edu!linac!att!cbnewsm!jeffj@network.ucsd.edu
Subject: Best way to learn code?
To: info-hams@ucsd.edu

In article <pineappCE4G2t.F4K@netcom.com> pineapp@netcom.com (Daniel Curry) writes:

>In article <28asm8\$2g1@lester.appstate.edu> RW884@CONRAD.APPSTATE.EDU (Watkins, Robert Shawn) writes:

>>I am wanting to upgrade to general and was wondering what people
>>thought is the best/easiest way to learn the code. I don't think
>>I'll have a problem with the written part of the exam, but the code
>>seems to be the biggest stumbling block. Any advice would be appreciated.
>>Thanks in advance.

>

> I had used Super Morse for the P.C. It is located via ftp
>on oak.oakland.edu /pub/msdos/hamradio. The file name is sm404.zip.

The method that I used was similiar. I flunked the 13 wpm code test the first time after just using Super Morse to study. After I got over the shock of failing the test I sat down at my rig with a shaky hand and plugged my key in. Gritting my teeth I sent my first CW CQ. Lo and behold someone came back to me! After barely copying what was sent I signed with him, wiped the sweat from brow, untensed my muscles and admired what I had written down. From that point on I did 1 or 2 CW QSOs a night and used Super Morse too. In a month's time I was up to 17 wpm and passed my 13 wpm. Using the same method I passed the 20 wpm for my Extra. Once again do 1 or 2 CW QSOs a day and do Super Morse for 10 minutes each day also and you'll pass the 13 wpm easily. You'll have fun working other hams and it will make your struggle to upgrade enjoyable.
73!

Jeff

--

Jeff Jones AB6MB		OPPOSE THE NORTH AMERICAN FREE TRADE AGREEMENT!
jeffj@seeker.mystic.com		Canada/USA Free Trade cost Canada 400,000 jobs.
Infolinc BBS 510-778-5929		Want to guess how many we'll lose to Mexico?

Date: Wed, 29 Sep 1993 20:17:27 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!kd4nc!ke4zv!
gary@network.ucsd.edu
Subject: Cavity amplifier design
To: info-hams@ucsd.edu

In article <29SEP199307483074@estd.nrl.navy.mil> malouf@estd.nrl.navy.mil (MALOUF, PERRY) writes:

>>For a long time I'm looking for the mathematics behind amplifier cavity
>>design. Designing an amplifier with a $1/4$ ($3/4$ or $5/4$) wavelength Lecher is
>>not a problem. The mathematics and formulas are widely available.
>>Theory and practice coincide well.
>>Looking at several cavity designs of tube amplifiers in the 1 - 3 GHz range
>>it seems that one mode is common: TEM₁₀₁ (I'm not sure if this is correct).
>>One can determine that for a circular cavity the diameter is related
>>to half the wavelength and depends on the capacitance of the tube being used.
>>The height, mostly fixed due to the physical properties of the tubes,
>>determines the cavity impedance, I'm told.
>>I asked numerous SHF-heroes about the formulas behind the cavities. Nobody
>>could give me a satisfying answer. In fact, most 'designers' admitted that
>>they used the trail and error approach.
>>Looking in several books (electronic engineering, physics, etc) the theory
>>behind cavities is explained. But I've never seen a publication where
>>a tube (read: capacitance) is introduced and with what effect on the physical
>>properties of the cavity.
>>I want to design an amplifier for 1296 MHz (23 cm amateurband) with a tube
>>but I don't want to use the $3/4:5/4$ wavelength approach.
>>
>I'm not familiar with some of the terms (e.g. Lecher) you're using,
>and your brief description wasn't enough to allow me to fully
>understand your application. Therefore I cannot address your
>problem directly.

Lecher wires are an open wire transmission line segment with a movable short used as an impedance transformer. This was a common way to measure the wavelength of a microwave signal in the old days. Wavelength was read directly from an attached meter stick when the short produced a dip on a diode detector. Using them for a tank circuit is a straight forward application of the Smith Chart.

[list of reasons an analytic solution is difficult deleted]

I'll second that list. This problem is not easily amenable to analysis. There are a few special cases where it's somewhat easier. Look at a re-entrant post cavity design. Use the plate output capacitance as the post loading capacitor. That'll get you a resonant design. Unfortunately it tells you little about the position or shape and size of the output coupling loop. That's going to be cut and try. With ordinary open cavities, the major problem is parasitic responses. The usual cure is to place passive "paddles" in the cavity at the proper point to break the undesired resonant mode. The tube makers usually supply a tech note with a working cavity design for their product. You can often just scale it to your frequency, but

you'll still have to use some cut and try to get the final circuit to work properly.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: Wed, 29 Sep 1993 20:21:11 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!kd4nc!ke4zv!
gary@network.ucsd.edu
Subject: Codeless Tech Debate
To: info-hams@ucsd.edu

In article <9309291203.AA15006@maverick.aud.alcatel.com>
mrz@maverick.aud.alcatel.com (Kris Mrz) writes:
>Can anyone pinpoint the date in amateur radio history when Morse code
>became irrelevant? To the nearest year would be good enough. Thanks.

Edwin Howard Armstrong invented FM in 1933.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: 30 Sep 93 18:37:07 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!sdd.hp.com!col.hp.com!srngenprp!
alanb@network.ucsd.edu
Subject: Crystal Oscillator
To: info-hams@ucsd.edu

Peter Reed (mpfb8@syms.sussex.ac.uk) wrote:
: I have a crsytal oscillator made simply using 2 TTL inverter gates with
: a 5-65pf capacitor in series with the 4.3 MHz crystal. This capacitor
: pulls the 4.3MHz crystal down a few tens of kHz but I need to shift it
: UP a few kHz. After some discussion, I wonder if it is, in fact,
: possible TO shift it up.

Putting the capacitor in series should shift the frequency UP compared to no capacitor at all. The smaller the capacitor, the greater the frequency shift. That's true no matter whether the crystal is operated in series or parallel-resonant mode.

Are you sure the capacitor is not in parallel? Then the capacitor would shift the frequency DOWN, assuming a parallel-resonant circuit. In a series-resonant circuit, a parallel cap should have little or no effect.

AL N1AL

Date: 30 Sep 93 16:38:01 GMT
From: news-mail-gateway@ucsd.edu
Subject: EETimes Magazine Address
To: info-hams@ucsd.edu

The following is the address for the Electronic Engineering Times magazine. I could not find a phone number for them - sorry.

Electronic Engineering Times
c/o CMP Publications
600 Community Drive
Manhasset N.Y.
11030

I enjoy reading this magazine very much especially in "The Profession" section.

73 de K1JKR - Ken

Date: 30 Sep 93 16:00:30 GMT
From: news-mail-gateway@ucsd.edu
Subject: first sos in history
To: info-hams@ucsd.edu

From: super!weh@uunet.uu.net

>A trivial question that we would really appreciate some help on
>is "what ship sent the first sos signal?

I think it was the Titanic but I may be wrong here.

>The second question that we would also really like to know is
>what signal was used for distress before the sos signal.

The letters CQD spring to mind, but again I'm not sure.

Yours vaguely,
Simon Woodworth.

EI???? - licence application pending.

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=====
      _/ \_ / \_      Simon Woodworth      | Tel: +353-21-357101 x258
    _/ \_ / \_      Motorola Ireland Ltd.   | Fax: +353-21-357635
  _/ \_ / \_      European Cellular         |-----
 \_ / \_ / \_      Infrastructure Division   | uunet!motcid!glas!woods
      Blackrock, Cork, Ireland. | woods@glas.rtsg.mot.com
=====
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Date: Wed, 29 Sep 93 14:12:11 GMT
From: netcon!bongo!skyld!jangus@locus.ucla.edu
Subject: Need good/cheap place to buy ferrite chokes
To: info-hams@ucsd.edu

In article <1993Sep28.224600.16023@ke4zv.atl.ga.us> gary@ke4zv.UUCP writes:

```
> In article <1993Sep28.130811.9169@cs.brown.edu> md@pstc3.pstc.brown.edu >
(Michael P. Deignan) writes:
> >
> >AAAAAAACCCCCCKKKKKKKKKKKKKKKKKKKKK!
> >
> >-- Michael P. Deignan
>
> Oh look, Ed, Michael has taken up packet. :-)
```

Looks like his TXD is bit too long.

```
Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA | "It is difficult to imagine our
Internet: jangus@skyld.tele.com          | universe run by a single omni-
US Mail: PO Box 4425 Carson, CA 90749    | potent god. I see it more as a
Phone: 1 (310) 324-6080                  | badly run corporation."
```

Date: Wed, 29 Sep 1993 19:41:29 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!kd4nc!ke4zv!
gary@network.ucsd.edu
Subject: New Products Announcement: BFH-1 & BFH-2
To: info-hams@ucsd.edu

In article <28a7un\$jf8@news.ysu.edu> ag821@yfn.ysu.edu (Jeff Gold) writes:

>

>In a previous article, sales@guinea.com (GuineaCrafters, Inc., Corporate Sales)
says:

>

>I was under the understanding that the Internet was not to be used
>for promoting commercial products..guess I was wrong.

What's the ASCII symbol for a fish with a hook dangling out of his
mouth? :-) :-) :-)

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: Thu, 30 Sep 1993 06:02:21 GMT
From: library.ucla.edu!agate!howland.reston.ans.net!gatech!usenet.ufl.edu!
mailer.cc.fsu.edu!freenet.scri.fsu.edu!bischoff@network.ucsd.edu
Subject: Power Supplies
To: info-hams@ucsd.edu

I will be in the market soon for a 30 amp (continous) power
supply. The major suppliers seem to be Astron, TrippLite and
Daiwa. Astron certainly seems to be sold on a wider retail basis
but I wonder if it is actually better than the others or if
the dealers simply have a better profit margin with it.
Can anyone out there give me any advice regarding these, or
any other, brands. Personal experience is helpful.
Oh yeah, the supply is for an ICOM 737 which I'll be ordering
at the same time as the pwr supply.

--

Bill Bischoff, NK40	
3691 Dexter Drive	bischoff@freenet.scri.fsu.edu
Tallahassee, Fl 32312	
(904) 893-6547	


```

*      For a unique QSL card, send your contact report to:      *
*                                                                *
*                  Alcatel Network Systems Inc                  *
*                  AARA, M/S 401-212                            *
*                  1225 North Alma Road                        *
*                  Richardson TX  75081-2206                  *
*                  USA                                          *
*                                                                *
*      Thank you,                                              *
*                                                                *
*                  Frank Krizan - WA5ABU                      *
*                  President, AARA                            *
*                                                                *
*****

```

Date: 30 Sep 93 16:32:00 GMT
 From: ogicse!uwm.edu!caen!nigel.msen.com!vvolk@network.ucsd.edu
 Subject: Stop hunter Harrassment in Michigan
 To: info-hams@ucsd.edu

Robert Dover (dover@bnr.ca) wrote:

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: In article <swood.749331809@vela.acs.oakland.edu>, swood@vela.acs.oakland.edu
: (Scott Wood) writes:
: |> Last year was the first test of the new Michigan Hunter Harrassement
: |> legislation. This year is bound to be fraught with its share of activism.
: |>
: I moved to Dallas from Ann Arbor 5 yrs ago and hadn't heard about the
: "hunter harrassment".

```

: What gives?

Its mainly animal rights activists. I have never been a hunter, but I have little tolerance for anyone who attempts to impair your civil liberties by harrassing you. They have patterned their behavior after the way that anti-abortion groups harass clinics.

Date: Thu, 30 Sep 1993 02:44:55 GMT
 From: sdd.hp.com!vixen.cso.uiuc.edu!howland.reston.ans.net!darwin.sura.net!convex!news.utdallas.edu!feenix.metronet.com!henrys@network.ucsd.edu
 Subject: TS50/MOBILE QUESTION
 To: info-hams@ucsd.edu

I got my first Bug Catcher many years ago. It is a great antenna!

Mine is mounted on a 54" mast (same length as the hustler fold over mast) with about a 2 foot whip on top. It will tune 40 thru 10 meters.

Good luck with your mobile.

Smitty. NA5K/M

--

Henry B. Smith - NA5K		henrys@feenix.metronet.com
1380 Camino Real		Home phone (214) 562-3049
McKinney, TX 75069		Office phone (214) 333-6077

Date: 30 Sep 93 16:37:24 GMT
From: ogicse!uwm.edu!linac!newsaintmail@network.ucsd.edu
To: info-hams@ucsd.edu

References <CDtH1w.It8@cbnewsc.cb.att.com>, <Ja5kac3w165w@jackatak.raider.net>,
<CE64pD.AI1@cbnewsc.cb.att.com>
Subject : Re: FCC Preempts scanner laws for amateur transcievers

In article <CE64pD.AI1@cbnewsc.cb.att.com>, k9jma@cbnewsc.cb.att.com
(edwin.m.schaefer) writes:
> In article <Ja5kac3w165w@jackatak.raider.net> root@jackatak.raider.net (Jack GF
Hill) writes:
>>k9jma@cbnewsc.cb.att.com (edwin.m.schaefer) writes:
>>> Gee, that seems pretty extreme. I have a 2m mobile rig (HW2036) always in
>>> the car but, recognizing that many government agents are hostile to
>>> or uncomfortable with people with radios and may react negatively, I:
>>>
>>> 1. Keep the rig concealed from outside view
>>Not so hard for me, although an HF rig wedged between the seats is a
>>BIT obvious to the uniformed dude peering in the window... ;^)
>>>
>>> 2. Conceal the antenna.
>>Interesting ploy...HOWEVER, since I HF mobile, hiding a Texas
>>BugCatcher is NOT so easy, and clandestine is not possible!
>
> I think HF is probably safer because the cops are much less likely to
> associate it with VHF/UHF FM communication equipment like theirs; it
> doesn't look or sound the same. So they are less likely to have a
> negative reaction because they won't connect it to someone "spying"
> on them (as with a scanner - which is where this discussion started).
>
>>> 3. _Never_ have the radio turned on (RX or TX in use)
>>I wear a boom mike with a headphone for hands-free (sorta -- I still
>>have to PTT with a thumb switch) so *that* too is kinda obvious!

>
> Headphone use by driver of vehicle is unlawful in many states. I'd like
> to use one when I operate HF on long trips, but my state forbids it.
>
> 73
> --
> Ed Schaefer K9JMA ham radio N97178 aviation

Don't know about where you are, but in ILLinois headphones are OK as long as one ear is not covered. Assuming that both work (the ears, that is).

--

```
=====
[ Fermi National Accelerator Laboratory ]
=====
[ Mark E. Levy, N9RXF | ]
[ BitNet: LEVY@FNAL | Unix is to computing ]
[ Internet: LEVY@FNAL.GOV | as an Etch-a-Sketch is to art. ]
[ HEPnet/SPAN: FNAL::LEVY (VMS!) | ]
=====
```

Date: Thu, 30 Sep 1993 16:14:34 GMT
From: brunix!pstc3!md@uunet.uu.net
To: info-hams@ucsd.edu

References <28cit6\$98e@news.acns.nwu.edu>, <1993Sep29.184533.16442@cs.brown.edu>,
<28cp0s\$bm4@news.acns.nwu.edu>f
Subject : Re: Selling license info (was: Re: 6 weeks 1 day!)

In article <28cp0s\$bm4@news.acns.nwu.edu>,
rdewan@casbah.acns.nwu.edu (Rajiv Dewan) writes:

|> A thousand pardons. You want me to read to comprehend things that are
|> not there? My students always try that in the exams. They point out
|> answers that are not there. Here is the whole post again. Where does
|> it mention 4 weeks?

You're not going back far enough. Apparently, you have come into this conversation halfway through, and are drawing conclusions based upon the few messages you have seen. In my *original* posting that started this entire thread, I had indicated that I received a "congratulations" letter three weeks before my license upgrade was processed by the FCC.

|> Pardon me. What do you call the last para before your sig? It is

|> excerpted below.

That was my obligatory League-bashing paragraph, and was designed to state that yes, even my good friend Ed may have been "mislead" or perhaps didn't have the correct information about the ARRL VEC, since, of course, I can't speak for him.

--

-- Michael P. Deignan
-- Population Studies & Training Center
-- Brown University, Box 1916, Providence, RI 02912
-- (401) 863-2668

--

-- Michael P. Deignan
-- Population Studies & Training Center
-- Brown University, Box 1916, Providence, RI 02912
-- (401) 863-2668

End of Info-Hams Digest V93 #1158
